Rosa Ponterio

List of Publications by Year
in descending order

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76 papers	1,057 citations	361413 20 h-index	501196 28 g-index
77 all docs	77 docs citations	77 times ranked	1267 citing authors

#	Article	IF	Citations
1	Epoxy-silica polymers as stone conservation materials. Polymer, 2005, 46, 1857-1864.	3.8	62
2	Spectroscopic techniques applied to the characterization of decorated potteries from Caltagirone (Sicily, Italy). Journal of Molecular Structure, 2005, 744-747, 827-831.	3.6	55
3	Time-of-Flight Neutron Imaging on IMAT@ISIS: A New User Facility for Materials Science. Journal of Imaging, 2018, 4, 47.	3.0	50
4	Raman scattering measurements on a floating water bridge. Journal Physics D: Applied Physics, 2010, 43, 175405.	2.8	48
5	Experimental Evidence of Slow Dynamics in Semidilute Polymer Solutions. Macromolecules, 1999, 32, 1128-1133.	4.8	37
6	Raman spectroscopic study of water in the poly(ethylene glycol) hydration shell. Journal of Molecular Structure, 1996, 381, 207-212.	3.6	36
7	Raman and scanning electron microscopy and energy-dispersive x-ray techniques for the characterization of colouring and opaquening agents in Roman mosaic glass tesserae. Journal of Raman Spectroscopy, 2004, 35, 622-627.	2.5	36
8	Epoxy-silica polymers as restoration materials. Part II. Polymer, 2003, 44, 4435-4441.	3.8	34
9	Materials analysis opportunities on the new neutron imaging facility IMAT@ISIS. Journal of Instrumentation, 2016, 11, C03014-C03014.	1.2	31
10	Stability of hydrolytic arsenic species in aqueous solutions: As³⁺vs. As⁵⁺. Physical Chemistry Chemical Physics, 2018, 20, 23272-23280.	2.8	30
11	Optical, morphological and spectroâ€•scopic characterization of graphene on SiO₂. Physica Status Solidi C: Current Topics in Solid State Physics, 2010, 7, 1251-1255.	0.8	27
12	Communication: An extended model of liquid bridging. Journal of Chemical Physics, 2010, 133, 081104.	3.0	27
13	Excess Thermodynamic Properties in Mixtures of a Representative Room-Temperature Ionic Liquid and Acetonitrile. Journal of Physical Chemistry B, 2007, 111, 10202-10207.	2.6	26
14	SERS and DFT study of indigo adsorbed on silver nanostructured surface. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 205, 465-469.	3.9	24
15	Surface-enhanced Raman scattering study of organic pigments using silver and gold nanoparticles prepared by pulsed laser ablation. Applied Surface Science, 2013, 272, 36-41.	6.1	23
16	Silver nanoparticles behave as hydrophobic solutes towards the liquid water structure in the interaction shell. A Raman study in the Oâ€“H stretching region. Physical Chemistry Chemical Physics, 2009, 11, 11258.	2.8	22
17	Confocal Raman spectroscopic study of painted medieval manuscripts. Journal of Cultural Heritage, 2001, 2, 191-198.	3.3	21
18	Brillouin Scattering Evidence of Nonideal Mixing in Methanol/CCl4Mixtures. Journal of Physical Chemistry B, 2004, 108, 732-736.	2.6	21

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19	Excess compressibility in binary liquid mixtures. Journal of Chemical Physics, 2007, 126, 224508.	3.0	21
20	Structure of bulk water from Raman measurements of supercooled pure liquid and LiCl solutions. Physical Review B, 2012, 86, .	3.2	20
21	SERS activity of silver and gold nanostructured thin films deposited by pulsed laser ablation. Applied Physics A: Materials Science and Processing, 2014, 117, 347-351.	2.3	19
22	Electric-Field-Induced Effects on the Dipole Moment and Vibrational Modes of the Centrosymmetric Indigo Molecule. Journal of Physical Chemistry A, 2020, 124, 10856-10869.	2.5	18
23	Egyptian metallic inks on textiles from the 15th century BCE unravelled by non-invasive techniques and chemometric analysis. Scientific Reports, 2019, 9, 7310.	3.3	17
24	A multivariate statistical approach of X-ray fluorescence characterization of a large collection of reverse glass paintings. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2019, 159, 105655.	2.9	16
25	The autofocusing system of the IMAT neutron camera. Review of Scientific Instruments, 2013, 84, 093701.	1.3	15
26	Raman spectroscopy of organic dyes adsorbed on pulsed laser deposited silver thin films. Applied Surface Science, 2013, 278, 259-264.	6.1	15
27	Laser Controlled Synthesis of Noble Metal Nanoparticle Arrays for Low Concentration Molecule Recognition. Micromachines, 2014, 5, 1296-1309.	2.9	15
28	The Tomb of the Diver and the frescoed tombs in Paestum (southern Italy): New insights from a comparative archaeometric study. PLoS ONE, 2020, 15, e0232375.	2.5	15
29	Chemometric Tools to Point Out Benchmarks and Chromophores in Pigments through Spectroscopic Data Analyses. Molecules, 2022, 27, 163.	3.8	15
30	Evidence of Heterogeneous Aggregation in Methanol/CCl4Mixtures:Â A Brillouin Scattering Investigation. Journal of Physical Chemistry B, 2004, 108, 12972-12977.	2.6	14
31	A neutron study of sealed pottery from the grave-goods of Kha and Merit. Journal of Analytical Atomic Spectrometry, 2017, 32, 1342-1347.	3.0	14
32	Removal of As(III) from Biological Fluids: Mono- versus Dithiolic Ligands. Chemical Research in Toxicology, 2020, 33, 967-974.	3.3	14
33	A Multi-Analytical Study for the Enhancement and Accessibility of Archaeological Heritage: The Churches of San Nicola and San Basilio in Motta Santâ€™Agata (RC, Italy). Remote Sensing, 2021, 13, 3738.	4.0	14
34	A COMBINED STUDY OF ART WORKS PRESERVED IN THE ARCHAEOLOGICAL MUSEUMS: 3D SURVEY, SPECTROSCOPIC APPROACH AND AUGMENTED REALITY. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-2/W11, 201-207.	0.2	13
35	Supercooled water escaping from metastability. Scientific Reports, 2014, 4, 7230.	3.3	12
36	A combination of portable non-invasive techniques to study on reverse glass paintings at Mistretta museum. Microchemical Journal, 2019, 146, 640-644.	4.5	12

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37	A ground level interpretation of the dielectric behavior of diluted alcohol-in-carbon tetrachloride mixtures. Journal of Chemical Physics, 2003, 119, 10771-10776.	3.0	11
38	Quasi-elastic light scattering in polymer-containing microemulsion. Journal of Molecular Structure, 1996, 383, 171-175.	3.6	10
39	Interaction between As(III) and Simple Thioacids in Water: An Experimental and ab Initio Molecular Dynamics Investigation. Journal of Physical Chemistry B, 2019, 123, 6090-6098.	2.6	10
40	Arsenicâ€“nucleotides interactions: an experimental and computational investigation. Dalton Transactions, 2020, 49, 6302-6311.	3.3	10
41	Some Evidence of Scaling Behavior in the Relaxation Dynamics of Aqueous Polymer Solutions. Journal of Physical Chemistry B, 2010, 114, 1614-1620.	2.6	9
42	Laser induced breakdown spectroscopy for the analysis of archaeological dyes from Licata (Sicily). Radiation Effects and Defects in Solids, 2008, 163, 535-543.	1.2	8
43	Collective acoustic modes in liquids: A comparison between the generalized-hydrodynamics and memory-function approaches. Physical Review E, 2011, 84, 051202.	2.1	8
44	Non-Invasive Investigation of Pigments of Wall Painting in S. Maria Delle Palate di Tusa (Messina, Italy). Heritage, 2019, 2, 2398-2407.	1.9	8
45	New automatic system for multipass Fabry-PÃ©rot alignment and stabilization. Review of Scientific Instruments, 2006, 77, 113104.	1.3	7
46	Identifying the Unknown Content of an Ancient Egyptian Sealed Alabaster Vase from Kha and Meritâ€™s Tomb Using Multiple Techniques and Multicomponent Sample Analysis in an Interdisciplinary Applied Chemistry Course. Journal of Chemical Education, 2021, 98, 461-468.	2.3	7
47	Understanding the behaviour of carnosine in aqueous solution: an experimental and quantum-based computational investigation on acidâ€“base properties and complexation mechanisms with Ca²⁺and Mg²⁺. New Journal of Chemistry, 2021, 45, 20352-20364.	2.8	7
48	Hydrolysis of Al3+ in Aqueous Solutions: Experiments and Ab Initio Simulations. Liquids, 2022, 2, 26-38.	2.5	6
49	Viscosity and photon correlation spectroscopy measurements in aqueous solutions of poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Ove	3.6	5
50	Excess thermodynamic properties in liquid binary mixtures. Journal of Raman Spectroscopy, 2008, 39, 220-226.	2.5	5
51	Is electrospray emission really due to columbic forces?. AIP Advances, 2014, 4, .	1.3	5
52	A theatrical double-faced mask preserved at the Museum of Lipari (Messina): study and 3D reconstruction through portable equipment. Virtual Archaeology Review, 2021, 12, 39.	1.9	5
53	The silver collection of San Gennaro treasure (Neaples): A multivariate statistic approach applied to X-ray fluorescence data. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2021, 180, 106171.	2.9	5
54	TIMEâ€OFâ€FLIGHT NEUTRON DIFFRACTION CHARACTERIZATION OF CERAMIC FINDINGS FROM SOUTHERN AND WESTERN SICILY*. Archaeometry, 2009, 51, 568-575.	1.3	4

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55	Combined 3D Surveying and Raman Spectroscopy Techniques on Artifacts Preserved at Archaeological Museum of Lipari. Heritage, 2019, 2, 2017-2027.	1.9	4
56	Non-invasive characterization of the pigmentâ€™s palette used on the painted tomb slabs at Paestum archaeological site. IOP Conference Series: Materials Science and Engineering, 2020, 949, 012002.	0.6	4
57	High-frequency propagating density fluctuations in deeply supercooled water: Evidence of a single viscous relaxation. Physical Review E, 2013, 87, 022303.	2.1	3
58	Volume crossover in deeply supercooled water adiabatically freezing under isobaric conditions. Journal of Chemical Physics, 2013, 138, 184504.	3.0	3
59	Reversible hydrogen absorption in a Ti-6Al-4V alloy produced by mechanical alloying. International Journal of Hydrogen Energy, 2014, 39, 15540-15548.	7.1	3
60	Role of pH on Nanostructured SERS Active Substrates for Detection of Organic Dyes. Molecules, 2021, 26, 2360.	3.8	3
61	Electrically induced birefringence in nanoparticle dispersions for electrorheological applications. Journal Physics D: Applied Physics, 2014, 47, 465301.	2.8	3
62	The Church of S. Maria Delle Palate in Tusa (Messina, Italy): Digitization and Diagnostics for a New Model of Enjoyment. Remote Sensing, 2022, 14, 1490.	4.0	3
63	Binding of Arsenic by Common Functional Groups: An Experimental and Quantum-Mechanical Study. Applied Sciences (Switzerland), 2022, 12, 3210.	2.5	3
64	On the Origin of Excess Thermodynamic Quantities in Liquid Mixtures. Oil and Gas Science and Technology, 2008, 63, 353-361.	1.4	2
65	Enhancement of electrorheological effect by particle-fluid interaction. Physical Review E, 2013, 87, 062304.	2.1	2
66	PHOTOGRAMMETRIC TECHNIQUES FOR THE RECONSTRUCTION OF UNDERWATER 3D MODELS OF SEABED AND ARTIFACTS. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XLII-2/W10, 25-30.	0.2	2
67	Brillouin scattering investigation of ME6N liquid crystal in CCl4. Journal of Molecular Liquids, 2010, 153, 67-71.	4.9	1
68	Neolithic ceramic findings from western Sicily. Chemical-physical and mineralogical characterization. Annali Di Chimica, 2001, 91, 803-12.	0.6	1
69	Digitization of two urban archaeological areas in Reggio Calabria (Italy): Roman Thermae and Greek fortifications. Journal of Archaeological Science: Reports, 2022, 43, 103441.	0.5	1
70	Micro-spectroscopic techniques applied to characterization of varnished archeological findings. AIP Conference Proceedings, 2000, , .	0.4	0
71	Beta-ray technique applied to the study and reproduction of ancient watermarks. AIP Conference Proceedings, 2000, , .	0.4	0
72	Mechanical properties characterization of Sicilian lithoid materials by computer-aided speckle interferometry. AIP Conference Proceedings, 2000, , .	0.4	0

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73	Relaxation processes in polymer-salt complexes. Colloid and Polymer Science, 2003, 281, 882-886.	2.1	0
74	Relaxation dynamics and evidence of scaling behaviours in aqueous polymer solutions. Journal of Molecular Liquids, 2011, 159, 105-111.	4.9	0
75	Kovacs Effect and the Relation Between Glasses and Supercooled Liquids. , 2018, , 139-152.		0
76	Dynamical properties of highly entangled polyalkylmethacrylate solutions : A comparative study. European Physical Journal Special Topics, 2000, 10, Pr7-321-Pr7-324.	0.2	0